

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

22278 U.S.PTO
10/699086



Docket No: 27581/01745

PATENT APPLICATION TRANSMITTAL UNDER 37 C.F.R. 1.53

Commissioner for Patents
Box Patent Application
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing is the patent application of

Inventors: Richard H. Holtman, Mark S. Cavanagh

Title: METHOD AND APPARATUS FOR EXHAUST GAS RECIRCULATION COOLING
USING A VORTEX TUBE TO COOL RECIRCULATED EXHAUST GASES

1. Type of Application

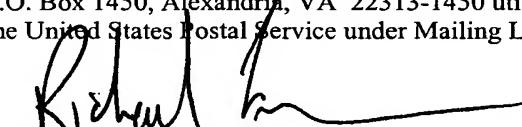
- This is a new application for a
 - utility patent.
 - design patent.
- This is a continuation-in-part application of prior application no.

2. Application Papers Enclosed

- 1 Title Page
- 7 Pages of Specification (excluding claims, abstract, and drawings)
- 4 Pages of Claims
- 1 Page of Abstract
- 2 Sheets of Drawings (Figs. 1 to 2)
 - Formal
 - Informal

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this Patent Application Transmittal and the documents referred to as enclosed therewith are being deposited with the United States Postal Service on October 31, 2003, in an envelope addressed to the Commissioner for Patents, Box Patent Application, P.O. Box 1450, Alexandria, VA 22313-1450 utilizing the "Express Mail Post Office to Addressee" service of the United States Postal Service under Mailing Label No. EV323780020US.


Richard Zimmermann

3. Declaration or Oath

Enclosed

Executed by (check all applicable boxes)

Inventor(s)

Legal representative of inventor(s)
(37 CFR 1.42 or 1.43)

Joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached

The petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 are enclosed. See Item 5D below for fee.

Not enclosed - the undersigned attorney or agent is authorized to file this application on behalf of the applicant(s). An executed declaration will follow.

4. Small Entity Status

Applicant claims small entity status. See 37 CFR 1.27.

A small entity statement is(are) attached.

5. Additional Papers Enclosed

Preliminary Amendment

Information Disclosure Statement

Declaration of Biological Deposit

Computer readable copy of sequence listing containing nucleotide and/or amino acid sequence

Microfiche computer program

Associate Power of Attorney

Verified translation of a non-English patent application

An assignment of the invention

Request and Certification Under 35 U.S.C. 122(b)(2)(B)(i)

Return receipt postcard

Other

6. Priority Applications Under 35 USC 119

Certified copies of applications from which priority under 35 USC 119 is claimed are listed below and

are attached.
 will follow.

COUNTRY	APPLICATION NO.	FILED

7. Filing Fee Calculation (37 CFR 1.16)

A. Utility Application

CLAIMS AS FILED - INCLUDING PRELIMINARY AMENDMENT(S) (IF ANY)						
			SMALL ENTITY	OTHER THAN A SMALL ENTITY		
	NO. FILED	NO. EXTRA	RATE	Fee	RATE	Fee
BASIC FEE				\$385.00		\$770.00
TOTAL	21 - 20	= 1	X 9 =	\$	X 18 =	\$18.00
INDEP.	3 - 3	= 0	X 42 =	\$	X 86 =	
First Presentation of Multiple Dependent Claim			+ 140 =	\$	+ 290 =	
Filing Fee:				\$	OR	\$788.00

B. Design Application (\$165.00/\$330.00) Filing Fee:

C. Plant Application (\$255.00/\$510.00) Filing Fee:

D. Other Fees

Recording Assignment [Fee — \$40.00 per assignment]

Petition fee for filing by other than all the inventors
or person on behalf of the inventor where inventor refused to sign
or cannot be reached [Fee — \$130.00]

Other

Total Fees Enclosed \$788.00

8. Method of Payment of Fees

Enclosed check in the amount of: \$788.00

Charge Deposit Account No. 13-2855 in the amount of:
A copy of this Transmittal is enclosed.

Not enclosed

9. Deposit Account and Refund Authorization

The Commissioner is hereby authorized to charge any deficiency in the amount enclosed or any additional fees which may be required during the pendency of this application under 37 CFR 1.16 or 37 CFR 1.17 or under other applicable rules (except payment of issue fees), to Deposit Account No. 13-2855. A copy of this Transmittal is enclosed.

Please refund any overpayment to Marshall, Gerstein & Borun at the address below.

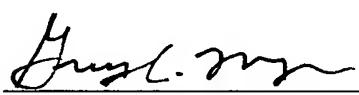
10. Correspondence Address:

Customer No. 04743

Respectfully submitted,

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By:



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October 31, 2003